

CYRB_HUMAN

CYTOKINE RECEPTOR COMMON BETA CHAIN PRECURSOR (CDW131 ANTIGEN)

Begin - 1, End - 897

Seq: CYRB_HUMAN Length: 897 Fri Nov 17 13:50:29 2000 Check: 148

```

1  MVLAQGLLSM ALLALCWERS LAGAEETIPL QTLRCYNDYT SHITCRWADT
51  QDAQRILVNV LIRRVNEDLL EPVSCDLSDD MPWSACPHPR CVPPRCIVIP
101 QSFVVTDDVY FSFQPDRLG TRLTVTLTQH VQPPEPRDLQ ISTDQDHFL
151 TWSVALGSPQ SHWLSPGDLE FEVVYKRLQD SWEDAAILL NTSQATLGPE
201 HLMPSSTYVA RVRTRLAPGS RLSGRPSKWS PEVCWDSQPG DEAQPNLE
251 FFDGA AVLSC SWEVRKEVAS SVSFGLFYKP SPDAGEECS PVLREGLSGL
301 HTRHHQCIPV PDPATHGQYI VSVQPRRAEK HIKSSVNIQM APPSLNVTKD
351 GDSYSLRWET MKMRYEHIDH TFEIQYRKDT ATWKDSKTET LQNAHSMALP
401 ALEPSTRYWA RVRVRTSRTG YNGIWSEWE ARSWDTSVL PMWVLALIVI
451 FLTI AVL LAL RFGIYGYRL RRKWEKIPN PSKSHLFQNG SAE LWPPGSM
501 SAFTSGSPPH QGPWGSRFPE LEGVFPVVGFG DSEVSPLTIE DPKHVCDDPS
551 GPDTTPAASD LPTEQPPSPQ PGPPAASHTP EKQASSDFDN GPYLGPPHSR
601 SLPDILGQPE PPQEGGSQKS PPPGSLEYLC LPAGGQVQLV PLAQMGPQ
651 AVEVERRPSQ GAAGSPSLES GGGPAPPALG PRVGGQDQKD SPVAIPMSG
701 DTEDPGVASG YVSSADLVFT PNSGASSVSL VPSLGLPSDQ TPSLCPLGLAS
751 GPPGAPGPKV SGE EGYVELP PIEGRSPRSP RNNVPVPEAK SPVLNPGERP
801 ADVSPTSPOP ELLVLQOVG DYCFPLGLGP GPLSLRSKPS SPGPGPEIKN
851 LDOAFQVKPK PGQAVPQVPV IQLFKALKQQ DYLSLPFWEV NKPGEVC

```

FIG 1

KKIT_HUMAN: STEM CELL GROWTH FACTOR RECEPTOR
(PROTO-ONCOGENE TYROSINE-PROTEIN KINASE KIT) (C-KIT) (CD117 ANTIGEN).
SEQUENCE 976 AA; 109864 MW;

MRGARGAWDF LCVLLLLLRV QTGSSQPSVS PGEPPPSIH PGKSDLIVRV GDEIRLLCTD
PGFVKWTFEI LOETNENKON EWITEKAEAT NTGKYTCTNK HGLNSIYVF VRDPAKFLV
DRSLYGKEDN DTLVRCPLTD PEVTNYSILKG CQKPLPKDL RFIPDPKAGI MIKSVKRAYH
RLCLHCSVDQ EGKSLSEKF ILKVRPAFKA VPVSVSKAS YLLREGEFFT VTCTIKDVSS
SVYSTKREN SQTKLQEKYN SMHGDENE ROATLTSSA RVNDSGVEMC YANNTFGSAN
VTTTLEVVDK GFINIFFMIN TTVEVNGEN VOLIVEYEF KPKEHQQWIY MNRTFTDKWE
DYPKSENEI IRYVSELHIT RLKTEGGTY TFLVNSDVN AAIAFNVYVN TKPEILTYDR
LVNGMLQOVA AGFPEPTIDW YFCPTQRC SASVLPDVQ TLNSSGPPFG KLVVQSSIDS
SAFKHNGTVE KRAYNDVGKT SAYENFAFG NNKEQIHPT LFTPLLIGFV IVAGMCCIIV
MILTYKYLQK PMYEVQWKV EEINGNNVY IDPTQLPYDH KWEPPNRSL FGKTLGAGAF
GKVVEATAYG LIKSDAAMTV AVKMLKPSAH LTREALMSE LKVLSYLGNH MNIVNLLGAC
TIGGPTIVIT EYCCYGDLLN FLRRKDSFI CSKQEDHAEA ALYKNLLHSH ESSCSDSTNE
YMDMKPGVS VVPTKADRRR SVRIGSYIER DVTPAIMEDD ELALDELIL SFSYQVAKGM
AFLASKNCIH ROLAARNILL THGRITKICD FGLARDIKND SNYVVKGNAR LPVKWMAPEI
IFNCVITFES DWMSYGIFLW ELFSLGSSPY PGMPVDSKFY KMIKEGFRML SPEHAPAEY
DIMKTCWDAD PLKRTETKQI VOLIEKQISE STNHIYSNLA NCSPNRQKPV VDSVSRINSV
GSTASSSQPL LVHDDV

FIG 2

20110118 15:00:00

TPOR_HUMAN: THROMBOPOIETIN RECEPTOR PRECURSOR (TPO-R)
(MYELOPROLIFERATIVE LEUKEMIA PROTEIN) (C-MPL).

TPOR OR MPL.

635 AA; 71244 MW

MPSWALFWMT SCLLAPQNL AQVSSQDVSL LASDSEFLKC FSRTEFLTC FWDEEEAAPS
GTYYLLAYP REKPRACPLS SQSNPHFGTR YVQFPDQEE VRLFFPLHLV VKNVFLNOTR
TORVLFVDSV GLPAPPSIIK AMGGSQPGEL QISWEPPAPE ISDFLRVELR YGPRDPKNST
GPTVIOLIAT ETCCPALQRP HSASALDQSP CAQPTMPWQD GPKQTSPSRE ASALTAEGBS
CLISGLQPGN SYWLQRSEP DGISLGGSWG SWSLPVTVDL PGDAVALGLQ CFTLDLRNVT
COMQQQDHAS SQGFYHSGRA RCCPRDYP I WENCEEERT NFGLQTPQFS RCHFCSRND
IIHILVEVTT APTGVHSYLG SPFWHQAVR LPTPNLHWRE ISSGHLELEW QHPSSWAAQE
TCYQLRYTGE GHQMKVLEP PLGARGGTLE LRPSRYRLQ LRARLNGPTY QGPRSSWSDP
TRVETATETA WISLVTALHL VLGLSAVLGL LLIRWQFPAP YRRLRHALWP SLPDLHRVLG
QYLRDTAALS PPKATVSDTC EEVEPSLLEI LPKSSERTPEL PLCSSQAQMD YRRLQPSCLG
TMPLSVCPPM AESSGSCCTTH IANHSLPLS YMQQP

FIG 3

204760*58866007

TPOR_MOUSE: THROMBOPOIETIN RECEPTOR PRECURSOR (TPO-R)
(MYELOPROLIFERATIVE LEUKEMIA PROTEIN) (C-MPL).
TPOR OR MPL.
625 AA; 69817 MW;

MPSMALFWVT SCLLLALPNQ AQVTSQDVFL LALGTEPLNC FSQTFEDLTC FWDEEAAAPS
GTYQLLYAYR GEKPRACPLY SOSVPTFGTR YVCQFPAODE VRLFFPLHLW VKNVSLNQTL
IQRVLFVDSV GLPAPPRVIK ARGSGQFGEI QIHWEAPAPE ISDFLRHELRL YGPTDSSNAT
APSVIQLLST ETCCPTLMWP NPVEVLDDPP CVHPTASQPH GPAPFLTVKG GSCILVSGLOA
SKSYWLQLRS QPDGVSILRS WGPWSFPTTV DLPGDVAVTIG LQCTILDLMK VTCOWQQQDR
TSSQGFRRHS KTRCCPTDRD PTWEKCEEEE PRPGSQPALV SRCHFSGRND SVIHILVEVT
TAQGAVHSYL GSPFWIHOAV LLPTPSLHWR EVSSGRLELE WQHOSWAAQ ETCYQLRYTG
EGREDWKVLE PSLGARGGTL ELRPRARYSL QLRRLNGPT YQGWSAWSP PARVSTGSET
AWITLVALL LVLISALLG LLLKQWQFPA HYRRLRLHALW PSLPDLHRVL GOYLRTDTAAL
SPSKATVTDS CEEVEPSILLE ILPKSSESTP LPLCPSQPQM DYRGLQPCLR TMPLSVCPFM
AETGSCCTTH IANHSYLPLS YWQQP

FIG 4

FIG 5A

mock β_c wt β_c 763 β_c 626 β_c 517 β_c 455

Mr(kDa)

192 -
127 -

73 -

43 -

32.3 -

17 -

FIG 5B

mock β_c wt β_c 626 β_c 544 β_c 517 β_c 455

FIG 5C

mock β_c wt β_c 626 β_c 544 β_c 517 β_c 455

IP: anti 14-3-3 ζ

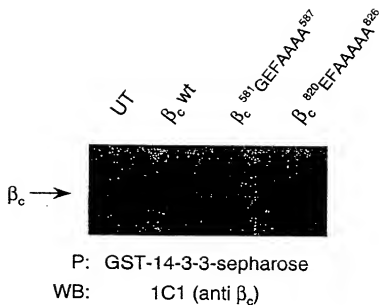
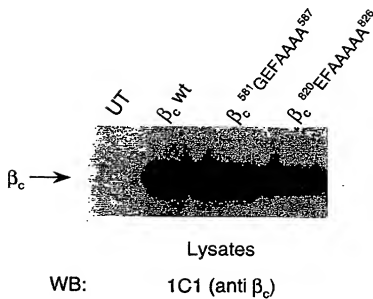
WB: 1C1 (anti β_c)

GST-14-3-3-sepharose

1C1 (anti β_c)

GST-sepharose

1C1 (anti β_c)

**FIG 6A****FIG 6B**

β_c peptides	CLGPPHSRSLPDILG	-	+	-	-	+	-	+	-	+
	CLGPPHSRSLPDILG	-	-	+	-	-	-	-	-	+
Raf 1 peptides	CLSQRQRSTSTPNVHM	-	-	-	+	-	-	+	-	-
	CLSQRQRSTSTPNVHM	-	-	-	-	-	+	-	-	+

β_c →



P: GST-14-3-3-sepharose

WB: 1C1 (anti β_c)

FIG 7

FIG 8A

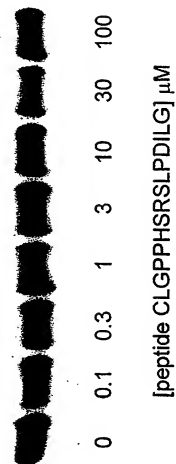


FIG 8C



FIG 8B



FIG 8D



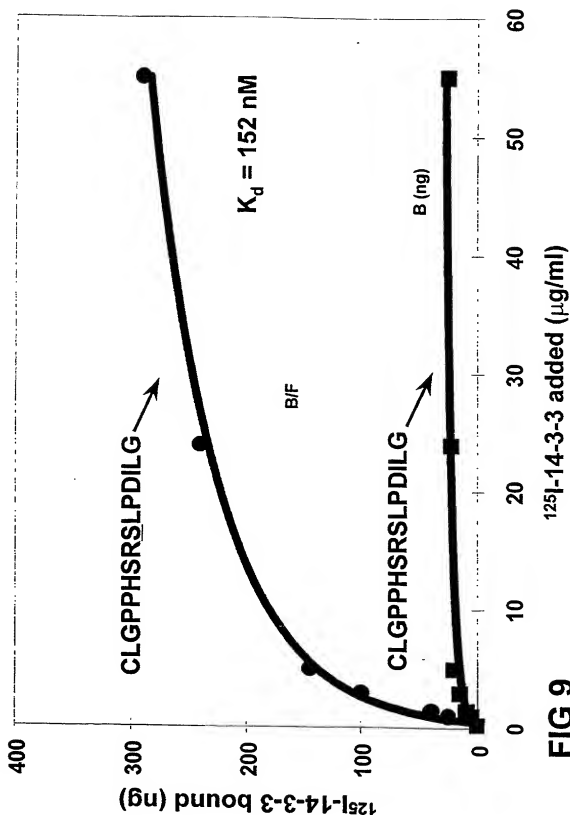


FIG 9

20170118 15:00:00

Peptides

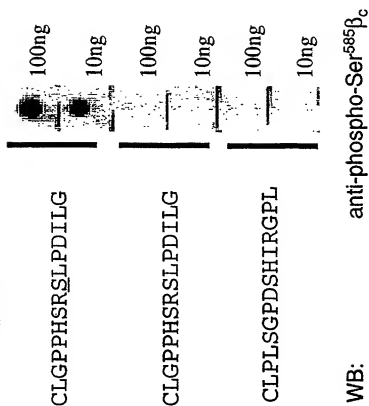


FIG 10A

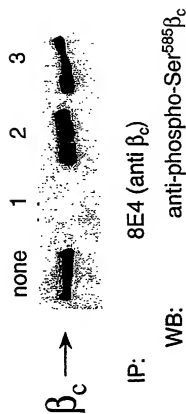


FIG 10B

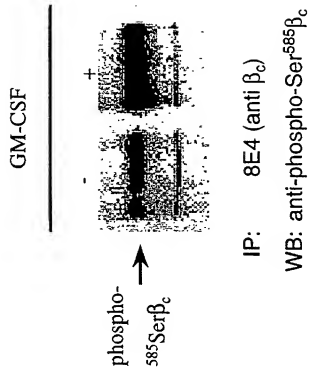
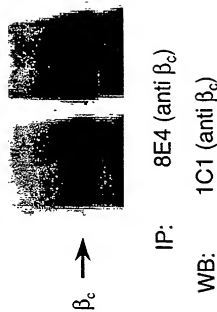


FIG 10C



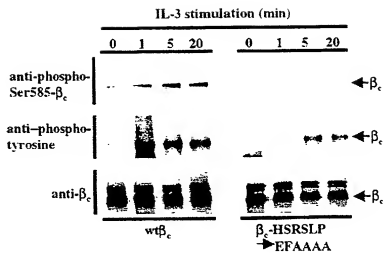


FIG 11A

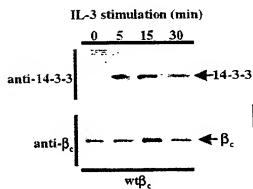


FIG 11B

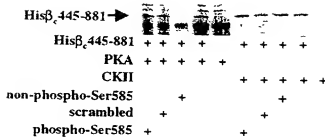


FIG 12A

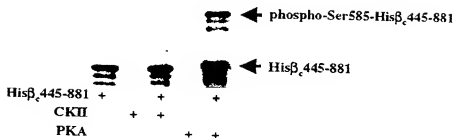


FIG 12B

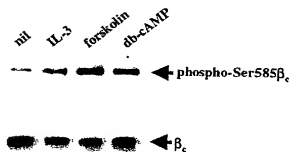


FIG 12C

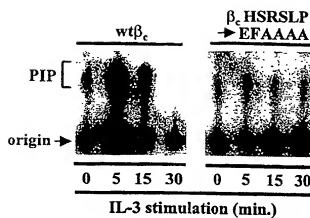


FIG 13A

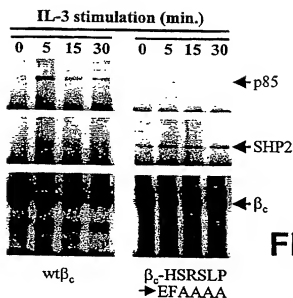


FIG 13B

name	sequence
scrambled	CLPLSGPDSHIRGPL
Ser585A1a	CLGPPHSRALPDILG
non-phospho-Ser585	CLGPPHSRSLPDILG
phospho-Ser585	CLGPPHSRSLPDILG

FIG 13C



FIG 13D

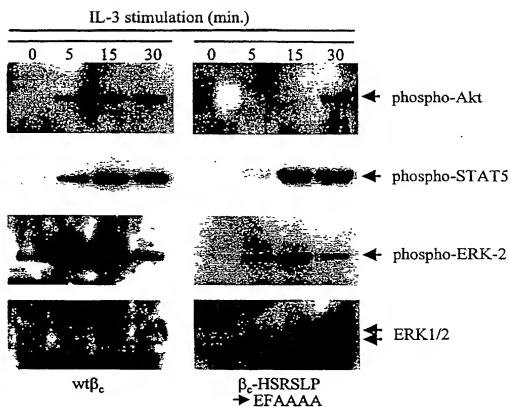


FIG 14A

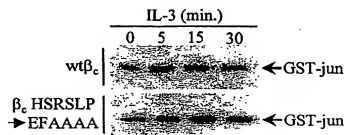


FIG 14B

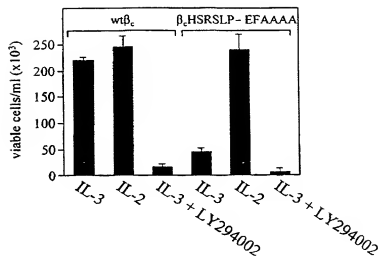


FIG 15A

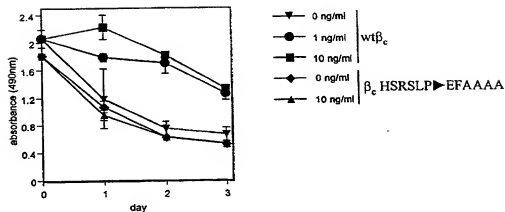


FIG 15B

	wt β_c		β_c HSRSLP μ EFAAAA	
	G ₀ /G ₁	S + G ₂ /M	G ₀ /G ₁	S + G ₂ /M
asynchronous	37.3	62.7	36.0	64.0
starved	88.3	11.7	87.4	12.6
+ IL-3	64.7	35.3	64.3	35.7

FIG 16A

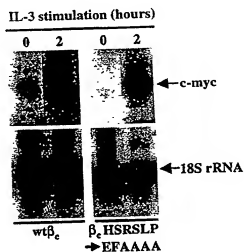


FIG 16B

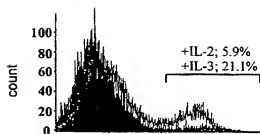


FIG 17A

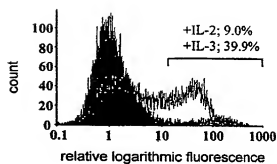


FIG 17B

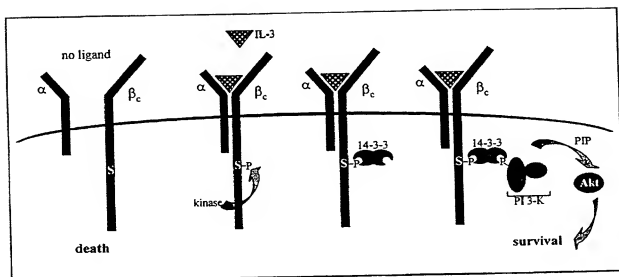
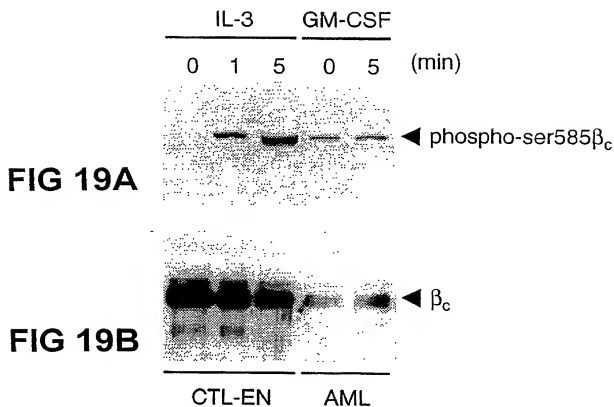


FIG 18



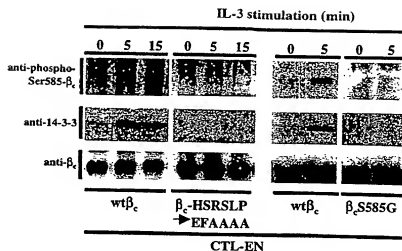


FIG 20A

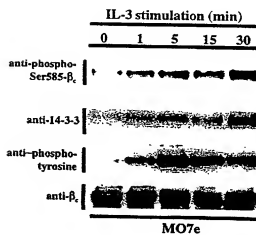


FIG 20B

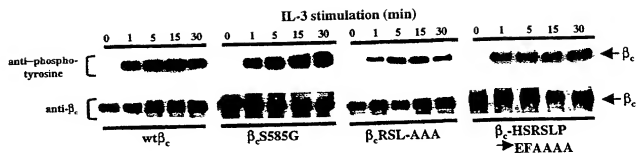


FIG 20C

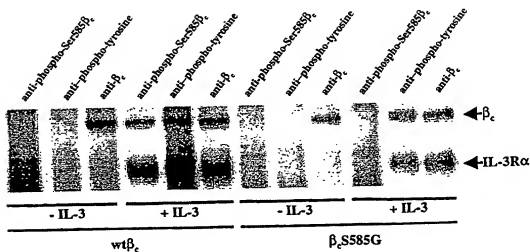


FIG 20D

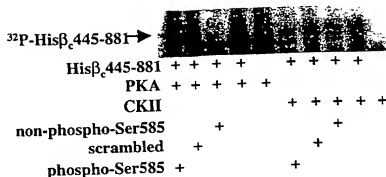


FIG 21A

phospho-Ser585-Hisβ_c 445-881 →

FIG 21B

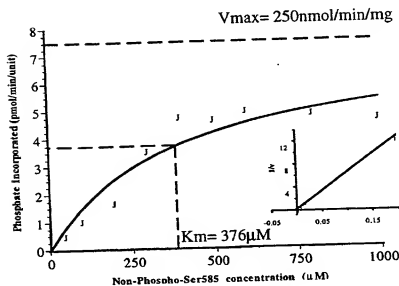
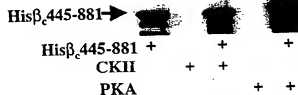
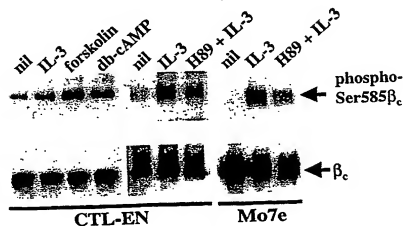


FIG 21C

FIG 21D



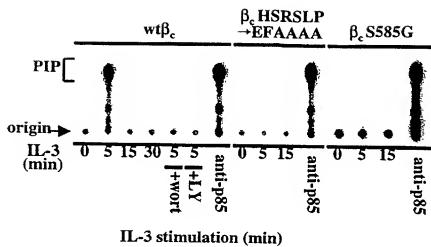


FIG 22A

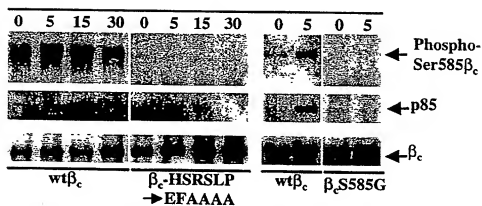


FIG 22B



FIG 22C

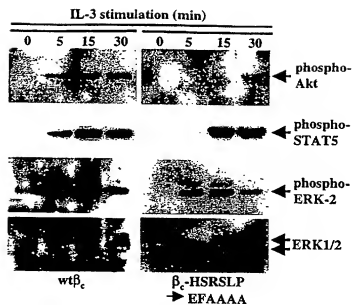


FIG 23A

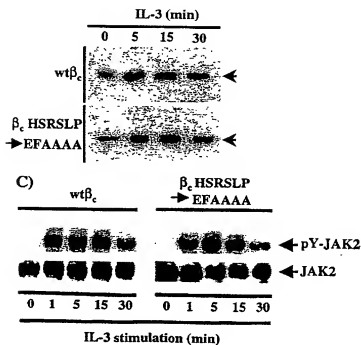


FIG 23B

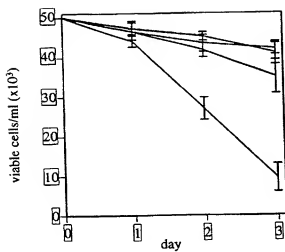


FIG 24A

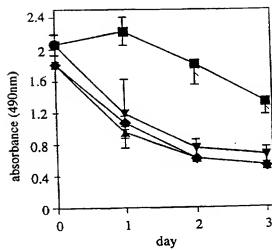


FIG 24B

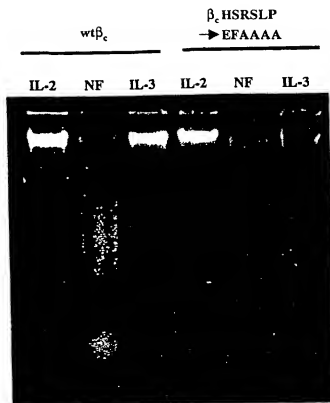


FIG 24C

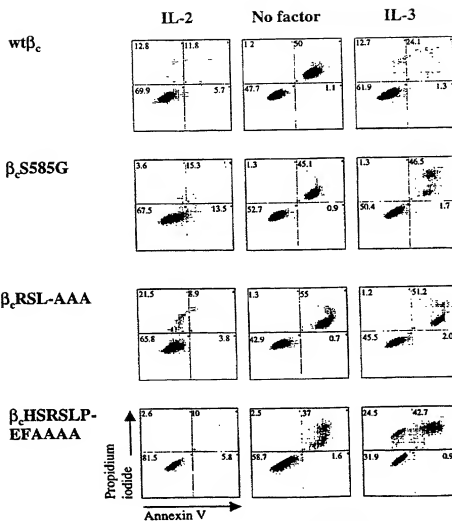


FIG 24D

	wt β_c		β_c HSRSLPmEFAAAA	
	G ₀ /G ₁	S + G ₂ /M	G ₀ /G ₁	S + G ₂ /M
asynchronous	37.3	62.7	36.0	64.0
starved	88.3	11.7	87.4	12.6
+ IL-3	64.7	35.3	64.3	35.7

FIG 25A

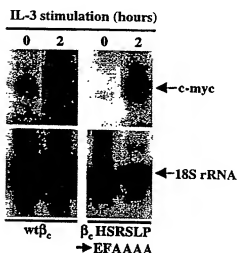


FIG 25B

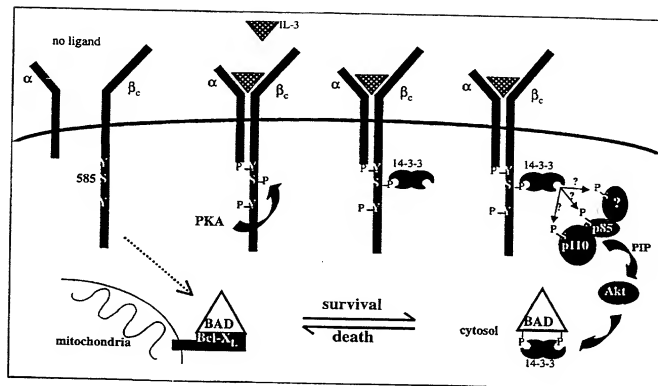


FIG 26

GM-CSF (min.)

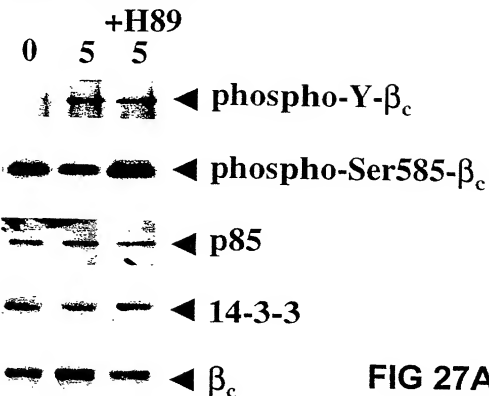


FIG 27A

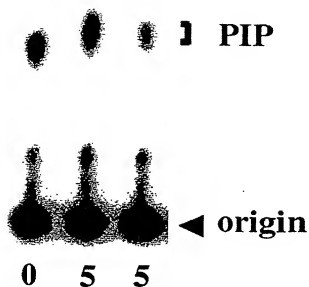


FIG 27B

GM-CSF (min.)